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CO-C PTO/SB/92 (08-03)

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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Each paper must have its own certificate of mailing, or this certificate must identify each submitted

- 1) Request for Certificate of Correction of Patent for PTO Mistake/2 Pages (1 copy)
- 2) Certificate of Correction/1 Page (2 copies)

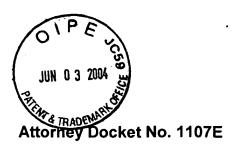
paper.

Note:

3) Copy of Notice of Allowability w/Examiner's Amendment Issued 11/24/03 Amending Title/4 Pages (1 copy)

This collection of information is required by 37 CFR 1.8. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**PATENT** 

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Number

: 6,720,478 B1

Issued

April 13, 2004

Name of Patentee

Pioneer Hi-Bred International, Inc.

Title of Invention

RAD51-Like Polynucleotide and Uses Thereof

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT FOR PTO MISTAKE (37 CFR 1.322(a))

- 1. Attached, in duplicate, is Form PTO/SB/44, with at least one copy being suitable for printing.
- 2. The exact page and line number where the errors are shown correctly in the application file are:

Notice of Allowability, issued November 24, 2003, Page 3, Examiner's Amendment, the Title was amended as follows:

A Maize Rad51-Like Polynucleotide and Uses Thereof

The above Examiner's Amendment to the Title is not reflected in the issued patent. A copy of the Examiner's Amendment (4 pages) is enclosed for the convenience of the Office.

3. Please send the Certificate to:

Name

Virginia Dress

Address:

Pioneer Hi-Bred International, Inc.

**Corporate Intellectual Property** 

7100 N.W. 62<sup>nd</sup> Avenue

Patent No. 6,720,478 B1 Attorney Docket No. 1107E

> P.O. Box 1000 Johnston, Iowa 50131-1000

> > Respectfully submitted,

Vuginia Dress

Agent for Applicant(s) Registration No. 48,243

PIONEER HI-BRED INTERNATIONAL, INC. Corporate Intellectual Property 7100 N.W. 62<sup>nd</sup> Avenue P.O. Box 1000 Johnston, Iowa 50131-1000 Phone: (515) 270-4192

Phone: (515) 270-4192 Facsimile: (515) 334-6883 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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(Also Form PTO-1050)

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO: US 6,720,478 B1

**DATED:** April 13, 2004

INVENTOR(S): Pramod B. Mahajan, Urbandale, IA (US); Jinrui Shi, Johnston, IA (US)

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

On the Title Page, Item (54) and Column 1:

(54) A MAIZE RAD51-LIKE POLYNUCLEOTIDE AND USES THEREOF

MAILING ADDRESS OF SENDER:

Pioneer Hi-Bred International, Inc. 7100 NW 62<sup>nd</sup> Avenue P.O. Box 1000 Johnston, IA 50131-1000

PATENT NO. 6,720,478 B1

No. of additional copies

Page 1 of 1

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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(Also Form PTO-1050)

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DATED: April 13, 2004

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Page 1 of 1

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JUN 0 3 2004 E	Application No.	Applicant(s)	<del></del>	
3000				
Notice of Allowability	09/537,654 Examiner	MAHAJAN ET AL.		
		Artonic		
	Anne R. Kubelik	1638	_	
The MAILING DATE of this communication a ll claims being allowable, PROSECUTION ON THE MERITS erewith (or previously mailed), a Notice of Allowance (PTOLOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT the Office or upon petition by the applicant. See 37 CFR 1.  This communication is responsive to 18 August 2003.  The allowed claim(s) is/are 2-10, 12, 25, 28-34, renumble and are accepted by the Examedian Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the:  1. Certified copies of the priority documents he can be copied to the priority documents he can be captured to the priority documents he can be copied to the priority documents he can be captured to the priority documents he can be captured to the priority documents he captur	IS (OR REMAINS) CLOSED in 85) or other appropriate community RIGHTS. This application is substituted and MPEP 1308.  Determiner and 10-18, 9 and 1-8, resident and 10-18, resident and 10-1	this application. If not incurrent this application will be mailed in causing the subject to withdrawal from incurrent to withdrawal	luded due course. THIS ssue at the initiative 2003	
reference was included in the first sentence of the spec  (a)  The translation of the foreign language provision  Acknowledgment is made of a claim for domestic priorit in the first sentence of the specification or in an Applica	ification or in an Application Dat al application has been received y under 35 U.S.C. §§ 120 and/o	ta Sheet. 37 CFR 1.78. d.	·	
pplicant has THREE MONTHS FROM THE "MAILING DATE elow. Failure to timely comply will result in ABANDONMENT	of this communication to file a of this application. THIS THR	reply complying with the re	equirements noted OT EXTENDABLE	
. A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which	gives reason(s) why the oath or	AMINER'S AMENDMENT of declaration is deficient.	or NOTICE OF	
. ☐ CORRECTED DRAWINGS ( as "replacement sheets") r  (a) ☐ including changes required by the Notice of Draftsp  1) ☐ hereto or 2) ☐ to Paper No  (b) ☐ including changes required by the proposed drawin  (c) ☐ including changes required by the attached Examinate Identifying indicia such as the application number (see 37 CF	person's Patent Drawing Reviewing correction filed, which her's Amendment / Comment or R 1.84(c)) should be written on the	n has been approved by the in the Office action of Papers and the front (not	er No	
each sheet. Replacement sheet(s) should be labeled as such  DEPOSIT OF and/or INFORMATION about the de	-	. ,	d Note the	
tached Examiner's comment regarding REQUIREMENT FOR	R THE DEPOSIT OF BIOLOGIC	CAL MATERIAL.	u. Note the	
ttachment(s)				
Notice of References Cited (PTO-892)		Notice of Informal Patent Application (PTO-152)		
Notice of Draftperson's Patent Drawing Review (PTO-948	· —	6⊠ Interview Summary (PTO-413), Paper No		
Information Disclosure Statements (PTO-1449 or PTO/SB Paper No.	7⊠ Examiner's A	mendment/Comment		
1 aper 140	8□ Examiner's S	tatement of Reasons for A		

1. An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Virginia Dress on 12 November 2003.

IN THE CLAIMS:

Claim 9 (Amended) A method of modulating the level of RAD51C in a plant,

[comprising] wherein the method comprises:

(a) introducing into a plant cell a recombinant expression cassette comprising the

polynucleotide of claim 25 operably linked to a promoter;

(b) culturing the plant cell [under plant cell growing conditions]; and

(c) regenerating a whole plant [which possesses the transformed genotype;], wherein the

plant expresses [and

(d) expressing] said polynucleotide [for a time sufficient to modulate], thereby

modulating the level of RAD51C in said plant.

IN THE ABSTRACT

The invention provides <u>an</u> isolated RAD51C nucleic [acids and their encoded proteins]

acid from maize. The present invention provides methods and compositions relating to altering

Art Unit: 1638

RAD51C levels in plants. The invention further provides recombinant expression cassettes, host cells, <u>and</u> transgenic plants[, and antibody compositions].

IN THE TITILE

<u>A MAIZE</u> RAD51-LIKE <u>POLYNUCLEOTIDE</u> [POLYNUCLEOTIDES] AND USES THEREOF

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne R. Kubelik, whose telephone number is (703) 308-5059. The examiner can normally be reached Monday through Friday, 8:30 am - 5:00 pm. Sometime in January 2004, the examiner's phone number will change to (571) 272-0801.

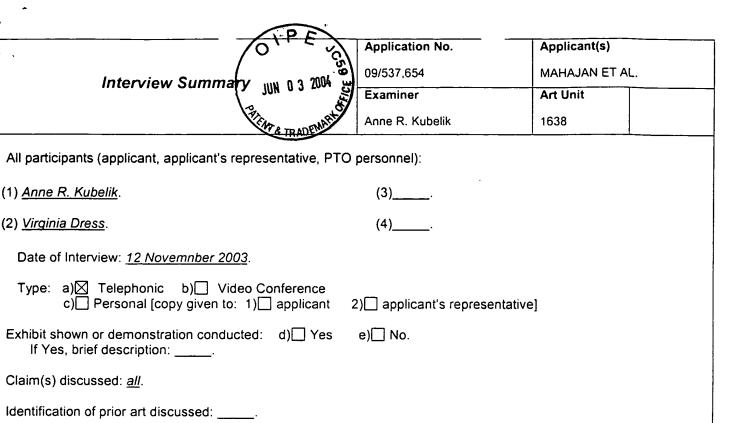
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson, can be reached at (703) 306-3218. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Customer Service at (703) 308-0198.

Anne R. Kubelik, Ph.D. November 12, 2003

AMY J. NELSON, PH.D SUPERVISORY PATENT EXAMINED TECHNOLOGY CENTER 1600

Amy Mer



Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Applicant approved the proposed claim amendments.

Agreement with respect to the claims f)  $\boxtimes$  was reached. g)  $\square$  was not reached. h)  $\square$  N/A.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Examiner's signature, if required